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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

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JNANA BHARATHI
BANGALORE-560 056

Date: 04-03-2024.

1. TEST REPORT ON STRUCTURAL STEEL :

Sub: Testing of Structural Steel, Members-
{Project*: Development of Parks at Sandeep Unnikrishnan Road from Purvankara Apartment to GKVK Road in Attur Ward No-04 }

Ref: Letter No. Testing/2023-24, dated 29-02-2024

Report required for : The Executive Engineer
Project Division, Yelahanka Zone
BBMP, Bangalore

Sample supplied to lab by *:. Sri. G. Venkate Gowda, Contractor

Technical Reference: IS: 2062-2011, IS 226 of 1992 & IS:808-1989

I. PHYSICAL TESTS

TABLE 1.1

		Specimen Size SHS- 132x132mm of 1.0m length	
Sl No	**Details of Tests**	**Test Results**	**Min req as per IS: 808/ IS:2062**
1	Proof stress/Yield stress, fy , N/mm^2	**282.0**	250 N/Sq mm(min)
2	Percentage of elongation, %	**27.40**	23.0(min)
3.	Ultimate Tensile Strength, N/mm^2	**469.0**	410-530 N/Sqmm
4.	Bend Test	**Passes**	--------

*As Furnished by Client.
The Results relate only to the items tested.

DEPARTMENT OF CIVIL ENGINEERING BANGALORE UNIVERSITY

S.A.K.Z. 04.03.2024

Dr. SADATH ALI KHAN ZAI
B.E.(Civil),M.E.(Construction Tech),Ph.D,MISTE,MICI,MIGS,MISTAM
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2. CHEMICAL TEST RESULTS:

Sl No	Description of Material	Carbon %	Manganese %	Silicon %	Sulphur %	Phosphorus %
1	SHS- 132x132mm	0.119	0.642	0.138	0.021	0.026

Requirements as per IS:2062-2011 (% age Maximum), Silicon- 0.40
Carbon - 0.23 Sulphur - 0.045, Phosphorus – 0.045, Manganese – 1.50

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I. PHYSICAL TESTS

TABLE 1.1

Sl No	Details of Tests	Specimen Size SHS- 72x72mm of 1.0m length	
		Test Results	**Min req as per IS: 808/ IS:2062**
1	Proof stress/Yield stress, fy , N/mm^2	**278.0**	250 N/Sq mm(min)
2	Percentage of elongation, %	**27.90**	23.0(min)
3.	Ultimate Tensile Strength, N/mm^2	**462.0**	410-530 N/Sqmm
4.	Bend Test	**Passes**	--------

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Date: 04-03-2024.

2. CHEMICAL TEST RESULTS:

Sl No	Description of Material	Carbon %	Manganese %	Silicon %	Sulphur %	Phosphorus %
1	SHS- 72x72mm	0.121	0.645	0.134	0.018	0.022

Requirements as per IS:2062-2011 (% age Maximum), Silicon- 0.40 Phosphorus – 0.045, Manganese – 1.50
Carbon - 0.23 Sulphur - 0.045,

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I. PHYSICAL TESTS

TABLE 1.1

		Specimen Size MS Flat- 75x12mm	
Sl No	**Details of Tests**	**Test Results**	**Min req as per IS: 808/ IS:2062**
1	Proof stress/Yield stress, fy , N/mm^2	**276.0**	250 N/Sq mm(min)
2	Percentage of elongation, %	**28.30**	23.0(min)
3.	Ultimate Tensile Strength, N/mm^2	**458.0**	410-530 N/Sqmm
4.	Bend Test	**Passes**	--------

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Date: 04-03-2024.

2. CHEMICAL TEST RESULTS:

Sl No	Description of Material	Carbon %	Manganese %	Silicon %	Sulphur %	Phosphorus %
1	**MS Flat- 75x12mm**	**0.124**	**0.642**	**0.139**	**0.021**	**0.026**

Requirements as per IS:2062-2011 (% age Maximum), Silicon- 0.40
Carbon - 0.23 Sulphur - 0.045, Phosphorus – 0.045, Manganese – 1.50

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The Results relate only to the items tested.

S.A.K 22/04/03/2024

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Technical Reference: IS: 2062-2011, IS 226 of 1992 & IS:808-1989

I. PHYSICAL TESTS

TABLE 1.1

		Specimen Size 20mm Square Rod of 1.0m length	
Sl No	**Details of Tests**	**Test Results**	**Min req as per IS: 808/ IS:2062**
1	Proof stress/Yield stress, fy , N/mm^2	**282.0**	250 N/Sq mm(min)
2	Percentage of elongation, %	**27.50**	23.0(min)
3.	Ultimate Tensile Strength, N/mm^2	**464.0**	410-530 N/Sqmm
4.	Bend Test	**Passes**	--------

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The Results relate only to the items tested.

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2. CHEMICAL TEST RESULTS:

Sl No	Description of Material	Carbon %	Manganese %	Silicon %	Sulphur %	Phosphorus %
1	**20mm Square Rod**	**0.119**	**0.636**	**0.143**	**0.017**	**0.024**

Requirements as per IS:2062-2011 (% age Maximum), Silicon- 0.40
Carbon - 0.23 Sulphur - 0.045, Phosphorus – 0.045, Manganese – 1.50

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